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APPLICATION	NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/623,03	10/623,037 07/18/20		Hiroshi Akita	TOW-033	6454
959	7590	-11/03/2006		EXAMINER	
		FIELD, LLP	WALKER, KEITH D		
	OST OFFICE N. MA 021	-		ART UNIT	PAPER NUMBER
20010	.,			1745	
				DATE MAILED: 11/03/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/623,037	AKITA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Keith Walker	1745					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply	V 10 057 TO 5V0105 - 110 V5V						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from e. cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 17 A	Nugust 2006.						
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.							
·	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.							
4a) Of the above claim(s) <u>6-15</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-5</u> is/are rejected.	· · · · · · · · · · · · · · · · · · ·						
7) ☐ Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er						
10)⊠ The drawing(s) filed on <u>18 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreigr	n priority under 35 H.S.C. & 119(a)-(d) or (f)					
a)⊠ All b)□ Some * c)□ None of:	i priority under 55 G.G.G. § 175(a)-(d) 61 (1).					
1. ☐ Certified copies of the priority document	ts have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list	of the certified copies not receive	ed.					
	,						
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Night Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 718/03, 10/2/06	5) Notice of Informal F 6) Other:	ratent Application					
U.S. Patent and Trademark Office							
PTOL-326 (Rev. 08-06) Office A	ction Summary Pa	art of Paper No./Mail Date 20061025					

DETAILED ACTION

Election/Restrictions

Applicant's election of Claims 1-5 in the reply filed on 8/17/06 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Claims 6-15 are pending in the application but are withdrawn for being drawn to a non-elected invention.

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). *Information Disclosure Statement*

The information disclosure statements filed on 7/18/03 and 10/2/06 have been placed in the application file and the information referred to therein has been considered as to the merits.

Drawings

The drawings received on 7/18/03 are acceptable for examination purposes.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The formulas, indicating derivatives of the respective basic

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polymers, are indefinite because the linking site or polymerization site is not indicated. It is unclear where each of the compounds would link together to form a polymer.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1 & 2 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 5,525,436 (Savinell).

Savinell discloses a proton conductive electrolyte having a basic polymer with an acidic group attached (Abstract; 2:50-65). The acidic group is more than 3 x 10-3 moles per gram of the polymer and the repeating unit has a mole unit greater than 0.10 the mole number of the acidic group (8:20-55).

2. Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by US Publication 2002/0094466 (Kerres).

Kerres discloses an ion conductive composite membrane having a basic polymer and acidic groups attached (Abstract; [0002, 0017]). The basic polymer comprises polyanilines, polythiophene or polypyrrole and the acidic group is an SO₃H or PO₃H₂

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group ([0019-0020]). The repeating acidic group has the same chemical makeup as formulas (3) and (4) ([0030-0031]).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Keith Walker whose telephone number is 571-272-3458. The examiner can normally be reached on Mon. - Fri. 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Trainer, Susy Tsang-Foster can be reached on 571-272-1293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

K. Walker

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